AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1.   (**Currently Amended**) A method of generating C code on the basis of Unified Modeling Language (UML) specifications, ~~wherein~~ the method comprising:

producing a detailed implementation model in UML code (UML model);

exporting an Extensible Markup Language (XML) Metadata Interchange (XMI) file based on the detailed implementation model;

dispatching the XMI file to a file generation engine tool, wherein the file generation tool is Model in Action;

associating the file generation engine tool with a scripts parameterization application; and

producing files in C language utilizing the file generation engine tool, wherein the files include C files, H files, a generation report file, configuration management batch files and compilation project files, wherein the generation report file includes the files of generated C code, wherein the configuration management batch files are Clearcase batch files for Clearcase scenarios, and wherein the configuration management batch files automatically update the Clearcase table according to information contained in the generation report file

~~a detailed implementation model is produced in UML code, that the model thus created~~
~~is exported in the form of a file in the XMI language, that this XMI file is dispatched to a~~
~~file generation engine which is the "Model In Action" tool, that this tool is associated with~~
~~a scripts parameterization application, and that this tool is made to produce files in the C~~
~~language, namely C files, H files, a generation report file, configuration management~~
~~"batch" files and compilation project files.~~

2.   (Previously Presented) The method as claimed in claim 1, wherein the C
code generated covers 100% of the UML specification of the software, the whole
generation spectrum being processed both statically and dynamically.

3.   (**Currently Amended**) The method as claimed in claim 1, wherein the
detailed implementation model is produced with the aid of a UML modeling tool.

4.   (**Currently Amended**) The method as claimed in claim 3, wherein the
producing the detailed implementation model ~~UML modeling tool~~ is produced utilizing
RHAPSODY from the company I-LOGIX.

5.   (**Currently Amended**) The method as claimed in claim 1, wherein the
generation report file comprises the following information:

version number of [[the]] a reference report[[,]];

version number of [[the]] a current report[[,]];

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designation of the UML model with its state and its version number[[,]];

designation of [[the]] software collections produced with their state and their version number[[,]];

designation of [[the]] generation scenarios with their state and their version number[[,]];

designation of [[the]] files generated with their state and their version number[[,]];

name of [[the]] a scenario in progress[[,]]; and

name of [[the]] generated text files of the scenario.

6.   (Cancelled)

7.   (**Currently Amended**) The method as claimed in claim 5, wherein [[the]] states of the files generated are comparison states with respect to those of a previous generation.

8.   (**Currently Amended**) The method as claimed in claim 6, wherein the state of each file is one of the following:

new[[,]];

unmodified[[,]];

modified[[,]];

modified manually[[,]];

modified and modified manually[[,]]; and

eliminated.

9.   (**Currently Amended**) The method as claimed in claim 2, wherein the generation report file comprises the following information:

a̲ version number of [[the]] a̲ reference report[[,]]:

a̲ version number of [[the]] a̲ current report[[,]]:

a̲ designation of the UML model with its state and its version number[[,]]:

a̲ designation of [[the]] software collections produced with their state and their version number[[,]]:

a̲ designation of [[the]] generation scenarios with their state and their version number[[,]]:

a̲ designation of the files generated with their state and their version number[[,]]:

a̲ name of [[the]] a̲ scenario in progress[[,]]: and

a̲ name of [[the]] generated text files of the scenario.

10.   (**Currently Amended**) The method as claimed in claim 3, wherein the generation report file comprises the following information:

a̲ version number of [[the]] a̲ reference report[[,]]:

a̲ version number of [[the]] a̲ current report[[,]]:

a̲ designation of the UML model with its state and its version number[[,]]:

a̲ designation of [[the]] software collections produced with their state and their version number[[,]]:

a designation of [[the]] generation scenarios with their state and their version number[[,]];

a designation of the files generated with their state and their version number[[,]];

a name of [[the]] a scenario in progress[[,]]; and

a name of the generated text files of the scenario.

11.   (**Currently Amended**) The method as claimed in claim 4, wherein the generation report file comprises the following information:

a version number of [[the]] a reference report[[,]];

a version number of [[the]] a current report[[,]];

a designation of the UML model with its state and its version number[[,]];

a designation of [[the]] software collections produced with their state and their version number[[,]];

a designation of [[the]] generation scenarios with their state and their version number[[,]];

a designation of the files generated with their state and their version number[[,]];

a name of [[the]] a scenario in progress[[,]]; and

a name of the generated text files of the scenario.